

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notification	ns.	in Block 1, by (a) spec				
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)  7590 02/13/2004				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.		
Kevin P Radigan Heslin & Rothenbe 5 Columbia Circle Albany, NY 12203	Esq erg PC			I hereby certify that States Postal Service addressed to the M	ertificate of Mailing or Tran this Fee(s) Transmittal is beir with sufficient postage for fi ail Stop ISSUE FEE address PTO, on the date indicated be	smission ng deposited with the United rst class mail in an envelope s above, or being facsimile
Albany, NT 12202	•					(Depositor's name)
		÷				(Signature)
				•		(Date)
APPLICATION NO.	FILING DATE	FIRST	NAMED INVEN	TOR '	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/580,945	05/30/2000		Felipe Knop		POU9-2000-0017-US	1278
· · · · · · · · · · · · · · · · · · ·	TOPOLOGY PROGAGATI	ON IN A DISTRIBU	TED COMPU	ring enviromen	T WITH NO TOLPOLOGY	' MESSAGE TRAFFIC IN
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	Pt	UBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	<u>'</u>	\$0	\$1330	05/13/2004
EXAM	MINER	ART UNIT	C	LASS-SUBCLASS	٦	•
OURESHI	, AFSAR M	2667	· · · · · · · · · · · · · · · · · · ·	370-254000	لمب	
PTO/SB/47; Rev 03-02 Number is required.  3. ASSIGNEE NAME ANI		e of a Customer wi E PRINTED ON THE F ow, no assignee data w ubmitted under separate	ATENT (print all appear on the cover. Comple	or type) e patent. Inclusion of tion of this form is Norman STATE OR Co	assignee data is only appropr or a substitute for filing an as	iate when an assignment has signment.
Please check the appropriat	e assignee category or categor	ries (will not be printed	on the patent);	🗅 individual 🗆	corporation or other private g	group entity 🚨 governmen
4a. The following fee(s) are	enclosed:	4b. Pay	ment of Fee(s):			
☐ Issue Fee				nount of the fee(s) is e		
☐ Publication Fee			<ul> <li>□ Payment by credit card. Form PTO-2038 is attached.</li> <li>□ The Director is hereby authorized by charge the required fee(s), or credit any overpayment,</li> </ul>			
Advance Order - # of		Dep	osit Account Nu	ımber	(enclose an extra	copy of this form).
Director for Patents is reque	ested to apply the Issue Fee ar	nd Publication Fee (if an	y) or to re-appl	y any previously paid	l issue fee to the application id	entified above.
(Authorized Signature)		(Date)	<u> </u>			
NOTE; The Issue Fee ar other than the applicant; interest as shown by the re	nd Publication Fee (if require a registered attorney or age ecords of the United States Pa	ed) will not be accepted ent; or the assignee or tent and Trademark Off	d from anyone other party in fice.			
This collection of inform obtain or retain a benefit application. Confidentiali estimated to take 12 mint completed application fo case. Any comments on suggestions for reducing Patent and Trademark 22313-1450. DO NOT SEND TO: Commissione Under the Panerwork R	ation is required by 37 CFR by the public which is to fit yis governed by 35 U.S.C. I ates to complete, including gram to the USPTO. Time will the amount of time you rethis burden, should be sent to Office, U.S. Department of SEND FEES OR COMPLE for Patents, Alexandria, Virgenduction Act of 1995, no reduction act of 1995, no red	1.311. The information le (and by the USPTO 22 and 37 CFR 1.14. The thering, preparing, and 1 vary depending upon equire to complete this of Commerce, Alexar TED FORMS TO THI ginia 22313-1450.	n is required to to process) an iis collection is submitting the the individual is form and/or n Officer, U.S dria, Virginia IS ADDRESS.		·	
Under the Paperwork R collection of information	eduction Act of 1995, no punites it displays a valid OMI	persons are required to 3 control number.	respond to a			



### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/13/2004

Kevin P Radigan Esq Heslin & Rothenberg PC 5 Columbia Circle Albany, NY 12203

EXAMINER QURESHI, AFSAR M				
3				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/580,945	05/30/2000	Felipe Knop	POU9-2000-0017-US	1278

TITLE OF INVENTION: TOPOLOGY PROGAGATION IN A DISTRIBUTED COMPUTING ENVIROMENT WITH NO TOLPOLOGY MESSAGE TRAFFIC IN STEADY STATE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	05/13/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



### UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/580,945	05/30/2000	Felipe Knop	POU9-2000-0017-US	1278
75	90 02/13/2004		EXAM	INER
Kevin P Radigan Esq Heslin & Rothenberg PC		QURESHI, AFSAR M		
5 Columbia Circle	ig rC		ART UNIT	PAPER NUMBER
Albany, NY 12203			2667	3
			DATE MAILED: 02/13/200-	4

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 928 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 928 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	Аррисации но.	Applicant(s)
Notice of Allowability	09/580,945	KNOP ET AL.
Nouce of Anomability	Examiner	Art Unit
	Afsar M Qureshi	2667
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subjection.	s application. If not included ation will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>communication dated</u>	<u>1 05/30/2000</u> .	
2. The allowed claim(s) is/are 1-36.		
3. The drawings filed on 30 May 2000 are accepted by the Ex	kaminer.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application N	0
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review ( P	TO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b)  including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in t	he Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Inform	al Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summ	nary (PTO-413),
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail 98), 7. 🗌 Examiner's Ame	Date endment/Comment
Paper No./Mail Date 2 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stat	ement of Reasons for Allowance
of Biological Material 9.   Other		
		D.M. A.
		AFSAR QURESHI 210104

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 09/580,945

Art Unit: 2667

### Reasons for Allowance

1. Claims 1-36 are allowed over prior art of record.

The following is an examiner's statement of reasons for allowance:

The present invention is directed to maintain a common network topology database at different nodes in a distributed computing environment. The unique method steps include "discontinuing sending of group connectivity messages for the time period when there is no topology change within the distributed environment and reinitiating, upon identification, by the group leader, of one topology change within the distributed environment utilizing a node common to both groups of nodes".

The closest prior art, Liang et al. (US 5,732,086) and Stirpe et al. (US 5,805,578) disclose a conventional method to curb the changing topology of data processing nodes where an originating node transmits an initial ID message over each interconnect link, message is acknowledged, and the node constructs a topology entry and updates and transmits to all other nodes hence enabling all nodes in the system.

However, the prior art of record, either singularly or in combination, fail to anticipate or render the above underlined limitation obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Page 3

Application/Control Number: 09/580,945

Art Unit: 2667

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Afsar M Qureshi whose telephone number is (703) 308 8542. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (703) 305 4378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AFSAR QURESHI PATENT EXAMINER

10 February 2004